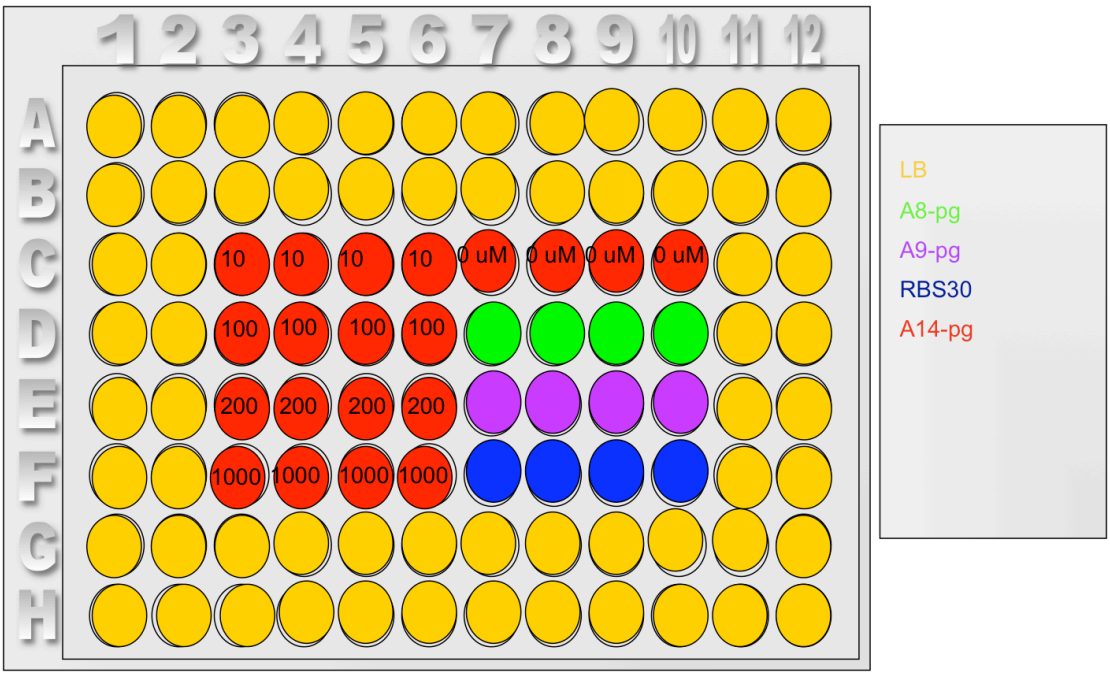
## A14 Induction test 28/07/09

**Description**: Induction test of A14 with different concentration of IPTG
**Purpose**: Induction test of A14 with IPTG at different concentrations. Positive controls: A8 and A9. Negative control: RBS30.
**Methods**: A flat-bottom non sterile plate is used. 96 wells are filled with:

- 200 ul LB+Amp,
- 200 ul bacterial coltures incubated overnight 37°C 220 rpm and then diluted 1:1000 and incubated for further 5 hours.

We want to start from a normalized OD of 0.025 and arrive to 0.17 (see Barry Canton).




The induction is in uM

**Protocol**:

- The plate is filled as described in Methods
- The instrument temperature is set at 37°C
- We want to see the induction in exponential phase (about 3 hours, from OD 0.05 to OD 0.15 already normalized for blank), so we sample every 3 minutes.
    - For 7 hours kinetic cycle of 3 minutes in wich:
        - 15 seconds shaking linear 3mm
        - 10 s wait
        - Absorbance and green fluorescence measure: -> GAIN SETTING: MANUAL 50
    - For the rest of experiment (untill 24 hours)

        - Kinetic cycle: 20 minutes
        - Shaking 15 s linear 3mm
        - Wait 10 seconds
        - Absorbance measurement
        - GFP measurement: -> GAIN SETTING: MANUAL 50
- For a problem in software programming the sample time isn't the desired one, so we use collected data to appreciate induction at steady-state, and we decide to repeat the experiment next week to perform the desired sampling.